Application No.:

10/534,342

Amendment Dated:

December 12, 2008

Reply to Office Action of: October 17, 2008

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

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Listing of Claims:

- 1. (Cancelled).
- 2. (Previously Presented) A plasma display device provided with a plasma display panel comprising a plurality of columns of discharge cells having one of a single color and multiple colors, and a phosphor layer disposed in each of the discharge cells, the phosphor layer having a color corresponding to the each discharge cell for emitting light when excited by ultraviolet rays, wherein

the phosphor layer is a mixed phosphor and includes a green color phosphor, the green color phosphor being a mixed phosphor comprising:

a phosphor of formula M_{1-a} ($Ga_{1-x}AI_x$)₂ O_4 : Mn_a (where "M" denotes one of Caand Sr, $0.01 \le a \le 0.06$, and $0.1 \le x \le 1.0$), and

a phosphor of formula($Y_{1-a-y}Gd_a$) $(Ga_{1-x}Al_x)_3$ $(BO_3)_4$: Tb_y (where $0 \le a \le 1$, $0.1 \le x \le 1.0$, $0.02 \le y \le 0.1$, $0.08 \le 1$ -a-y ≤ 0.98), and

a phosphor of formula $(Y_{1-a-y}Gd_a)$ $(Ga_{1-x}AI_x)_3$ $(BO_3)_4$: Ce_y , Tb_y (where $0 \le a \le 1$, $0.1 \le x \le 1.0, 0.02 \le y \le 0.1, 0.08 \le 1-a-y \le 0.98$).

(Previously Presented) A plasma display device provided with a plasma display panel comprising a plurality of columns of discharge cells having one of a single color and multiple colors, and a phosphor layer disposed in each of the discharge cells, the phosphor layer having a color corresponding to the each discharge cell for emitting light when excited by ultraviolet rays, wherein

the phosphor layer is a mixed phosphor and includes a green color phosphor, the green color phosphor being a mixed phosphor comprising:

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a phosphor of formula M_{1-a} ($Ga_{1-x}Al_x$)₂ O_4 : Mn_a (where "M" denotes one of Ca and Sr, $0.01 \le a \le 0.06$, and $0.1 \le x \le 1.0$) and

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a phosphor of formula($Y_{1-a-y}Gd_a$) BO_3 : Tb_y (where $0 \le a \le 1$, $0.02 \le y \le 0.4$, $0.08 \le 1$ -a-y ≤ 0.98).

4. (Previously Presented) A plasma display device provided with a plasma display panel comprising a plurality of columns of discharge cells having one of a single color and multiple colors, and a phosphor layer disposed in each of the discharge cells, the phosphor layer having a color corresponding to the each discharge cell for emitting light when excited by ultraviolet rays, wherein

the phosphor layer is a mixed phosphor and includes a green color phosphor, the green color phosphor being a mixed phosphor comprising:

a phosphor of formula M_{1-a} ($Ga_{1-x}AI_x$)₂ O_4 : Mn_a (where "M" denotes one of Caand Sr, $0.01 \le a \le 0.06$, and $0.1 \le x \le 1.0$) and

a phosphor of formula $(Y_{1-a-y}Gd_a)_3$ $(Ga_{1-x}Al_x)_5$ $O_{12}:Tb_y$ (where $0 \le a \le 1$, $0.1 \le x \le 1.0$, $0.02 \le y \le 0.4$, $0.08 \le 1-a-y \le 0.98$).

5.-6. (Cancelled).

(Previously Presented) A plasma display device provided with a plasma 7. display panel comprising a plurality of columns of discharge cells having one of a single color and multiple colors, and a phosphor layer disposed in each of the discharge cells, the phosphor layer having a color corresponding to the each discharge cell for emitting light when excited by ultraviolet rays, wherein

the phosphor layer includes any of a green color phosphor, a blue color phosphor and a red color phosphor,

the green color phosphor being a mixed phosphor comprising:

a spinel system of formula M_{1-a} ($Ga_{1-x}Al_x$)₂ O_4 : Mn_a (where "M" is at least one of Ca and Sr, $0.01 \le a \le 0.06$, and $0.1 \le x \le 1.0$), or

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a phosphor of yttria system comprising formula $(Y_{1-a-v}Gd_a)$ $(Ga_{1-x}Al_x)_3$ $(BO_3)_4$: Tb_v (where $0 \le a \le 1$, $0.1 \le x \le 1.0$, $0.02 \le y \le 0.1$, $0.08 \le 1$ -a-y ≤ 0.98), and

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formula $(Y_{1-a-y}Gd_a)$ $(Ga_{1-x}Al_x)_3$ $(BO_3)_4:Ce_y$ Tb_{v} (where $0 \le \mathsf{a} \le 1$, $0.1 \le x \le 1.0$, $0.02 \le y \le 0.1$, $0.08 \le 1-a-y \le 0.98$), and

formula $(Y_{1-a-y}Gd_a)$ BO₃:Tb_v (where $0 \le a \le 1$, $0.02 \le y \le 0.4$, $0.08 \le 1$ -a-y ≤ 0.98 , and

formula $(Y_{1-a-y}Gd_a)_3$ $(Ga_{1-x}Al_x)_5$ O_{12} : Tb_y (where $0 \le a \le 1$, $0.1 \le x \le 1.0$, $0.02 \le y \le 0.4$, $0.08 \le 1$ -a-y ≤ 0.98), or

a spinel system of formula M_{1-a} ($Ga_{1-x}AI_x$)₂ O_4 : Mn_a (where "M" is at least one of Ca and Sr, $0.01 \le a \le 0.06$, and $0.1 \le x \le 1.0$), and

a phosphor of yttria system comprising formula $(Y_{1-a-y}Gd_a)$ $(Ga_{1-x}Al_x)_3$ $(BO_3)_4$: Tb_v (where $0 \le a \le 1$, $0.1 \le x \le 1.0$, $0.02 \le y \le 0.1$, $0.08 \le 1$ -a-y ≤ 0.98), and

formula $(Y_{1-a-v}Gd_a)$ $(Ga_{1-x}AI_x)_3$ $(BO_3)_4:Ce_v$, Tb_v (where $0 \le a \le 1$, $0.1 \le x \le 1.0$, $0.02 \le y \le 0.1$, $0.08 \le 1$ -a-y ≤ 0.98), and

formula $(Y_{1-a-v}Gd_a)$ BO_3 : Tb_v (where $0 \le a \le 1$, $0.02 \le y \le 0.4$, $0.08 \le 1$ -a-y ≤ 0.98 , and

formula $(Y_{1-a-y}Gd_a)_3$ $(Ga_{1-x}Al_x)_5$ O_{12} : Tb_y (where $0 \le a \le 1$, $0.1 \le x \le 1.0$, $0.02 \le y \le 0.4$, $0.08 \le 1$ -a-y ≤ 0.98), and

the blue color phosphor is a phosphor of BaMgAl₁₀O₁₇:Eu or BaSrMgAl₁₀O₁₇:Eu, and

the red color phosphor is a phosphor of Y₂O₃:Eu or (Y, Gd)BO₃:Eu.

8.-11. (Cancelled).